

24-AT-6005
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Challberg et al.

Art Unit: 3641

Serial No.: 09/597,113

Examiner: J. Keith

Filed: June 20, 2000

For: CORE CONFIGURATION FOR A
NUCLEAR REACTORAMENDMENT AFTER FINAL OFFICE ACTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

In response to the Office Action dated March 14, 2003, and made final, and the Advisory Action dated May 22, 2003, please amend the above-identified patent application as follows.

IN THE CLAIMS

1. (four times amended) A core for a nuclear reactor comprising:

a plurality of separate independent fuel bundles, each said separate independent fuel bundle comprising a handle to facilitate lowering said fuel bundle into said core; and a plurality of large control rods, each said control rod comprising four control rod blades extending radially from a central portion and arranged at right angles to each other, said blades defining four fuel bundle receiving channels, said control rods arranged in a plurality of staggered rows with only four separate independent fuel bundles in each said receiving channel and two sides of each of said four separate independent fuel bundles adjacent a control rod blade.

6. (thrice amended) A core for a nuclear reactor comprising a plurality of fuel cells,

each said fuel cell comprising;

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